

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) Interface unit for employment at a dentist's or dental treatment/workstation, which is provided for the purpose of passing on signals containing image information, the interface unit comprising:

at least two inputs for receiving input signals containing image information, first and second outputs for passing on the received input signals as output signals containing image information to one or more displays connectable with the interface unit and to further interface units, and

at least one internal transfer unit for selectively passing on the received input signals containing image information to either the first and second outputs or a processing unit,

wherein the processing unit includes a first conversion block for converting an analog video input signal into a digital input signal and passing the digital input signal to a second conversion block, the second conversion block for one of freezing, mirroring, quading, or deinterlacing the digital input signal and passing the digital input signal to a third conversion block and a fourth conversion block, the third conversion block for converting the digital input signal to a first PC standard output signal, and the fourth conversion block for converting the digital input signal to a second PC standard output signal.

2. (Canceled)

3. (Previously Presented) Interface unit according to claim 1, wherein the digital signal produced by the first conversion block can be delivered to a processing block for digital processing of the video signal.

4. (Previously Presented) Interface unit according to claim 3, wherein the digital signal produced by the first conversion block, and if applicable processed by the processing block, can be selectively delivered to the internal transfer unit or to a further conversion unit for the generation of a signal corresponding to a PC graphic standard.

5. (Previously Presented) Interface unit according to claim 4, wherein the third conversion block forms an output signal corresponding to the VGA standard.

6. (Previously Presented) Interface unit according to claim 5, wherein the digital signal produced by the first conversion block, and if applicable processed by the processing block, can be delivered to the fourth conversion block for the generation of an output signal corresponding to the DVI standard.

7. (Previously Presented) Interface unit according to claim 1, wherein the input signals and output signals include video signals, and the interface unit further comprises a first transfer unit via which the video input signals are selectively passed on to the first and second outputs.

8. (Previously Presented) Interface unit according to claim 1, wherein at least one input signal is a signal corresponding to a PC graphic standard.

9. (Previously Presented) Interface unit according to claim 8, further comprising at least two inputs and two outputs for signals corresponding to the PC graphic standard and a second transfer unit via which the signals are selectively passed on to the outputs.

10. (Previously Presented) Interface unit according to claim 9, wherein the signals corresponding to the PC graphic standard are VGA signals.

11. (Previously Presented) Interface unit according to claim 1, further comprising at least two inputs and outputs for audio signals associated with the inputs and outputs for the signals containing image information, and an audio transfer unit via which the audio signals at the inputs are passed on to the associated outputs in accordance with the passing on of the signals containing the image information.

12. (Previously Presented) Dentist's or dental treatment/workstation comprising:

an interface unit including at least two inputs for receiving input signals containing image information, first and second outputs for passing on the received input signals as output signals containing image information to a plurality of displays connectable with the interface unit and to further interface units, and at least one internal transfer unit for selectively passing on the received input signals containing image information to either the first and second outputs or a processing unit, wherein the processing unit includes a first conversion block for converting an analog video input signal into a digital input signal and passing the digital input signal to a second conversion block, the second conversion block for one of freezing, mirroring, quading, or deinterlacing the digital input signal and passing the digital input signal to a third conversion block and a fourth conversion block, the third conversion block for converting the digital input signal to a first PC standard output signal, and the fourth conversion block for converting the digital input signal to a second PC standard output signal,

one or more of a dentist's work device and a dentist's examination device,

an input device for generating and wirelessly transmitting navigation information and control information for activation and control of functions of the interface unit and one or more of the dentist's work device and the dentist's examination device, and

a functional unit connected upstream of the dentist's work device and the dentist's examination device, which receives the navigation information and control information transmitted from the input device and passes it on to one or more of the dentist's work device and the dentist's examination device.

13. (Previously Presented) Dentist's or dental treatment/workstation according to claim 12, wherein the interface unit is integrated in the functional unit.

14. (Previously Presented) Dentist's or dental treatment/workstation according to claim 12, wherein the functional unit passes on the navigation information and

control information transmitted from the input device at least in part in a wireless manner to the devices.

15. (Previously Presented) Dentist's or dental treatment/workstation according to claim 14, wherein the functional unit has a master module for wireless communication with the devices, whereby there is associated with the devices in each case a slave module which passes on the information received from the master module to the associated device.

16. (Previously Presented) Dentist's or dental treatment/workstation according to claim 15, wherein the slave modules are integrated in the respective devices or connected with the respective devices via an RS232 interface or a PC interface.

17. (Previously Presented) Dentist's or dental treatment/workstation according to claim 12, wherein the functional unit further stands in connection with a server, wherein there is effected an exchange of data between the server and the devices via the functional unit.

18. (Previously Presented) Dentist's or dental treatment/workstation according to claim 17, wherein the functional unit is connected with the server via a USB interface.

19. (Previously Presented) Dentist's or dental treatment/workstation according to claim 12, wherein the input device has:

a first input element for the generation of navigation information for the control of a pointer on a user interface which is represented on a display of the dentist's treatment station,

a second input element for the generation of control information with which functions of the devices are selectable or activatable independently of the navigation information generated by the first input element,

transfer means for the wireless transmission of the navigation and control information generated with the aid of the first and second input elements to the devices or to a functional unit connected upstream of the devices.

20. (Previously Presented) Dentist's or dental treatment/workstation according to claim 19, wherein the control information generated via the second input element can be employed for the control of the at least one device independently of a unit administering the user interface.

21. (Previously Presented) Dentist's or dental treatment/workstation according to claim 20, wherein the first input element has a navigation element for the generation of two-dimensional navigation information and at least two selection keys for the generation of supplementary selection information.

22. (Previously Presented) Dentist's or dental treatment/workstation according to claim 21, wherein the navigation element is a joystick.

23. (Previously Presented) Dentist's or dental treatment/workstation according to claim 22, wherein the joystick can be pressed down for the generation of a supplementary item of selection information.

24. (Previously Presented) Dentist's or dental treatment/workstation according to claim 22, wherein in a menu mode the functioning of the navigation element is blocked, and solely the selection information can be generated with the aid of the selection keys.

25. (Previously Presented) Dentist's or dental treatment/workstation according to claim 22, wherein the second input element is formed by a function key field having a plurality of function keys.

26. (Previously Presented) Dentist's or dental treatment/workstation according to claim 25, wherein a part of the function keys is provided for control of the interface unit.

27. (Previously Presented) Dentist's or dental treatment/workstation according to claim 26, wherein a part of the function keys is provided for selection of a video image source intended for representation on a display.

28. (Previously Presented) Dentist's or dental treatment/workstation according to claim 26, wherein a part of the function keys is provided for the selection of an image signal corresponding to a PC graphic standard, in particular corresponding to the VGA standard, intended for representation on a display.